



USG – next Security Generation

The next security generation is now complete. The successful launch at the end of last year of two high-end firewalls is now followed by the ZyWALL USG 100 and 200, both designed for between 5 and 50 users. A key feature of the entire USG series is the hybrid VPN with IPSec, SSL and L2TP which provides maximum remote connectivity flexibility.

ZyXEL ZyWALL USG 100 / 200

Article: USG 100: 91-009-045001B

USG 200: 91-009-057001B

Est. street price: USG 100: 562,00 € excl. VAT.

USG 200: 844,00 € excl. VAT.



Security is not any longer just a matter of hermetically closing your network for every type of access to be sure the no harm will be done to your valuable data or business as a whole.

Today it's equally important to open your network to exploit exciting new opportunities for mobile access, distance work and integration to partners network.

All this is about openness and enhancing the value of existing it-systems and data. And all is about using the right security solution that will both secure the network against any type of attacks and theft, and at the same time open it for authorized users. ZyXEL's expanding series of Unified Security Gateways – the next generation firewall – is the answer to a company's demands for full security and valuable openness.

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Content

USG – next security generation

ZyXEL is extending the line of Unified Security Gateway products – the next generation firewall – to fit every size and type of company: From the small company to the largest enterprise.

Going wireless

The new generation wireless home gateways is here – 802.11n Draft 2.0 delivers up to 8x the speed and 5x the range with virtually no dead spots in the radio coverage.

Seamless roaming

To be really useful for voice and video applications a wireless network must have seamless roaming. ZyXEL has the solution



New addition to the ZyWALL USG family

At the end of May, two fanless models will be added to the ZyWALL USG family: the ZyWALL USG 100 and 200, for between 5 and 50 users. The ZyWALL USG family differs from the ZyWALL ITM series in that it comes with a hybrid VPN, two WAN ports, object-oriented configuration and a number of other key features.

ZyWALL USG 100

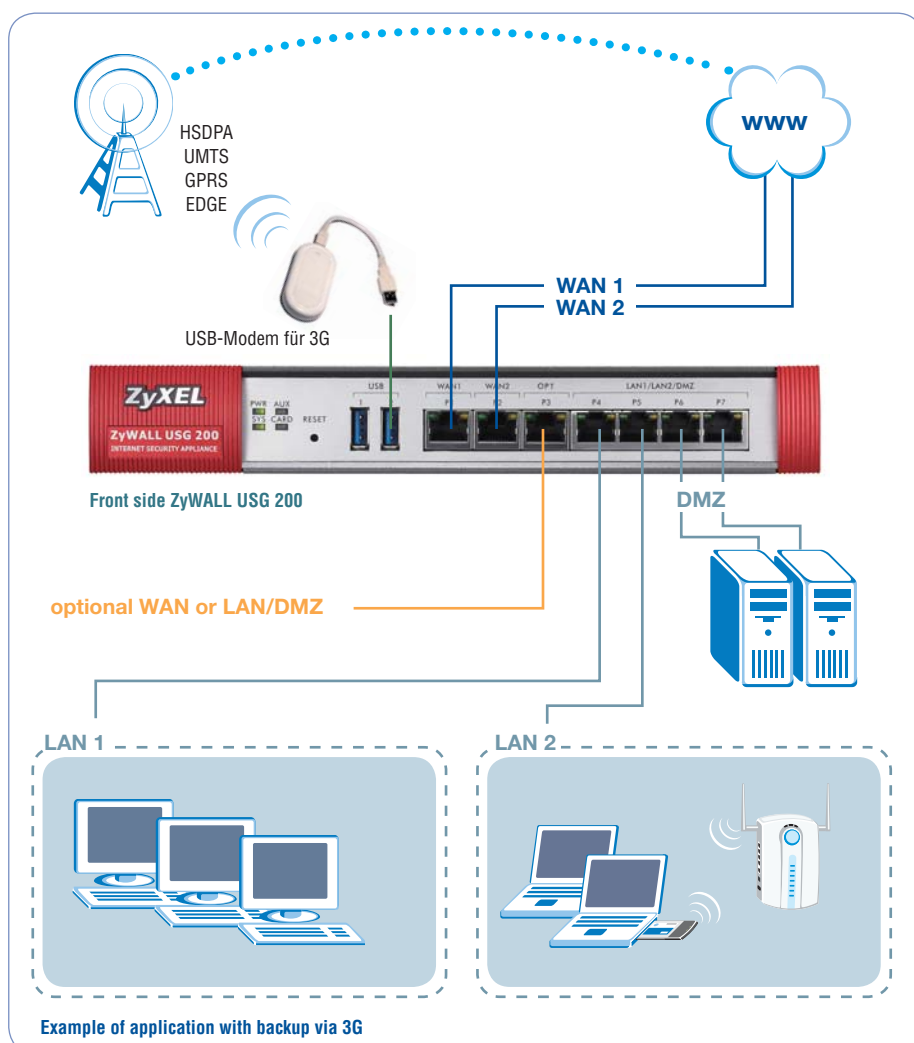
The firewall provides comprehensive protection for small networks with up to 25 users. Of the seven gigabit Ethernet ports, two are predefined as fixed WAN ports. Five ports can be freely allocated to one of the LAN/DMZ/WLAN security zones. A PC card slot and two USB ports support the addition of 3G and WLAN functionality.

ZyWALL USG 200

The ZyWALL USG 200 is designed for small and mid-sized businesses with up to 50 users. Two of the seven gigabit Ethernet ports are predefined as fixed WAN ports. Four ports can be freely allocated to one of the LAN/DMZ/WLAN security zones. One port can be assigned either as a third WAN or LAN/DMZ/WLAN port. This model also offers 3G and WLAN support.

Firewall with hybrid VPN

Until now, IPSec-based VPN connections have been generally considered to offer the best solution for secure remote access. Today hybrid VPN with IPSec, L2TP and SSL is the ideal tool for meeting the requirements of different business models. IPSec-VPN is primarily used for connecting entire networks. The L2TP included in the operating system is a good solution for remote access by a large number of Windows PCs without the need to install software. SSL-VPN has recently also become established as an access technology in the SME sector. With the new ZyWALL USG solutions, these three VPN types can be used simultaneously.



Productivity and security

The Application Patrol allows variable access policies to be implemented for specific users or groups. Access to selected instant messaging or peer-to-peer applications can be blocked completely or restricted to certain times or certain bandwidths.

Gateway antivirus

The administrator can choose between ICSA-certified ZyXEL AV or Kaspersky AV to protect the network from viruses, trojans and spyware. The ZyXEL antivirus solution features around five times more signatures than the 3,000 or so provided by Kaspersky. The service at the gateway (network) level is an ideal complement to local antivirus protection and inspect the protocols FTP, HTTP, SMTP, POP3 and IMAP4.

Intrusion detection & prevention

More than 2,000 signatures protect systems from attacks by worms, trojans, backdoors, etc., and recognise the most frequently used instant messaging and peer-to-peer applications that are usually not permitted in a business network. While antivirus functions seek to prevent infection, IDP blocks active intruders or attacks which are already active.

Gateway anti-spam

ZyWALL USG 100/200 supports free-of-charge protection against spam mail via DNSBL (DNS Block List), also known as the Realtime Black-hole List (RBL). These lists contain the senders of mass mails. The firewall can now be configured to deal with mail from such senders. For exam-

ple, by setting up a first spam filter at the gateway. Anti-spam will be supported on ZyWALL USG 300/1000 and ZyWALL 1050 by a firmware upgrade as from the third quarter of 2008.

High availability

At the WAN end, multiple ISP links can be set up so as to ensure redundant Internet access in the event that one ISP fails. A connection via HSD-PA/UMTS provides additional backup. A second, identical ZyWALL USG allows high hardware availability in active/passive mode. The configuration is synchronised at regular intervals. If the active firewall fails, the backup takes over the gateway function.

Two-fold access security

SSL and IPSec-VPN links can be additionally protected by requesting a PIN code which generates a one-time token password (ZyWALL OTP). There is an ever-increasing demand when setting up partner or customer access to a VPN for two-factor authentication. Similar to e-banking systems with scratch lists, two factors are needed for identification. First the password is entered, then the newly generated token number.

Status and reporting

For a better overview, the current status can be displayed graphically on the status page of the ZyWALL USG 100/200. Detailed reports can be drawn up using the optional VRPT software.

Future ZyWALL 5

ZyWALL 5 (without UTM) will remain in the ZyXEL portfolio as a flexible stateful packet inspection



firewall. It is envisaged that the established VPN firewall for small networks not requiring UTM services will be replaced in the second quarter of 2009.

ZyWALL 5 UTM / 35 / 35 UTM

After a brief transition period these models will be replaced by ZyWALL USG 100 and 200.

Bundles with services

Both new models are also available as attractive bundles with one year AV/IDP/CF.

All products in the new ZyWALL USG series have a five-year warranty. ZyXEL provides regular firmware updates at no extra charge.

Overview of ZyXEL ZyWALL Functions

	ZyXEL ZyWALL USG Firewall				ZyXEL ZyWALL 5 Firewall
	ZyXEL ZyWALL USG 100 USG-Firewall	ZyXEL ZyWALL USG 200 USG-Firewall	ZyXEL ZyWALL USG 300 USG-Firewall	ZyXEL ZyWALL USG 1000 USG-Firewall	
Data transfer rate: Firewall (Mbps)	100	150	200	350	50
Data transfer rate: IPSec-VPN (Mbps)	50	75	100	150	25
Data transfer rate: UTM (Mbps)	24 Mbps	24 Mbps	48 Mbps	100 Mbps	-
Max. NAT sessions	20'000	40'000	60'000	500'000	4'000
Max. IPSec tunnels	50	100	200	1'000	10
SSL tunnels	2 / max. 5	2 / max. 10	2 / max. 10	5 / max. 50	-
IDP-/AV-/CF-/AS service option*	✓/✓/✓/✓	✓/✓/✓/✓	✓/✓/✓/✓/3/08	✓/✓/✓/✓/3/08	-/✓/✓/-
Interface/throughput	5 x LAN/DMZ; 2 x WAN	4 x LAN/DMZ; 2 x WAN, 1 x OPT	7 x 10/100/1000	5 x 10/100/1000	4 x LAN/DMZ, 1 x WAN
Zone-specific rule	Predefined only	Predefined only	✓	✓	-
Object-oriented configuration	✓	✓	✓	✓	-
High hardware availability	Active/passive	Active/passive	Active/passive	Active/passive	-
Guarantee (in years)	5	5	5	5	2
Article	91-009-045001B	91-009-057001B	91-009-034001B	91-009-052001B	91-009-014001B
Sale Price	€ 562,00 excl. VAT	€ 844,00 excl. VAT	€ 1'518,00 excl. VAT	€ 3'350,00 excl. VAT	€ 434,00 excl. VAT

* Anti-spam free of charge

Gigabit WLAN Router 802.11n

The NBG-460N is equipped with state-of-the-art 300 Mbps wireless LAN technology in accordance with IEEE802.11n V2.0. With its 4-port gigabit switch, this router offers a quick platform for communication with PCs, game consoles and storage devices. It also offers a special time switch function which allows the WLAN transmitter to be turned off whenever it is not required.



Gigabit speed

The NBG-460N offers full gigabit speed via the integrated 4-port switch which allows it to accommodate high WLAN data throughput rates. This device also includes an integrated NAT router with firewall functions and supports four dynamic DNS services to enable remote access. An all-rounder which is a class above the rest.

ZyXEL NBG-460N

Article: 91-003-208001B

Est. street price: € 83,00 excl. VAT.



NEW: WLAN time switch

A special function makes it possible to turn the wireless LAN transmitter off during predefined periods of time. These periods of time can be defined in 30-minute increments via an online GUI. This feature offers the advantages of increased security and reduced radiation whenever WLAN is not needed.

External antennas

Should additional wireless coverage ever be needed, three more external antennas can be connected to the NBG-460N. However only suitable antennas, such as the ANT-1106 (Art. 2499), should be used. Both the type of antenna and the distance between the antennas is perfectly adjusted for use with 802.11n.

Wireless LAN Scheduling										
☒ Enable Wireless LAN Scheduling										
WLAN status	Day	Except for the following times (24-Hour Format)								
☐ On ☐ Off	☐ Everyday	00	(hour)	00	(min)	~	00	(hour)	00	(min)
☐ On ☐ Off	☒ Mon	00	(hour)	00	(min)	~	00	(hour)	00	(min)
☐ On ☐ Off	☒ Tue	22	(hour)	00	(min)	~	08	(hour)	00	(min)
☐ On ☐ Off	☒ Wed	22	(hour)	00	(min)	~	08	(hour)	00	(min)
☐ On ☐ Off	☒ Thu	22	(hour)	00	(min)	~	08	(hour)	00	(min)
☐ On ☐ Off	☒ Fri	22	(hour)	00	(min)	~	08	(hour)	00	(min)
☐ On ☐ Off	☒ Sat	23	(hour)	30	(min)	~	09	(hour)	00	(min)
☐ On ☐ Off	☒ Sun	23	(hour)	00	(min)	~	09	(hour)	00	(min)
Note: Specify the same begin time and end time means the whole day schedule.										
Apply Reset										

Define on/off time segments

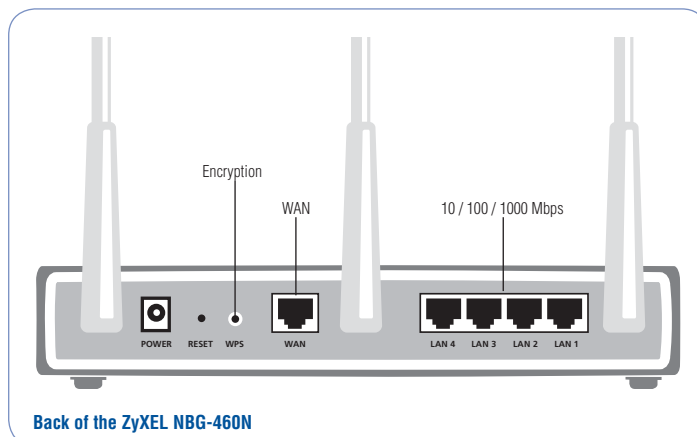
FEATURES

Gigabit WLAN Firewall Router 802.11n

- Wireless LAN time switch (online GUI)
- Virtual DMZ zone
- 4 dynamic DNS services
- 2 IPsec VPN tunnels
- WPA/WPA2 security
- Wi-Fi Protected Setup (WPS)
- Vista certified

300 Mbps via WLAN

MIMO technology makes it possible to achieve data rates this high. Under ideal conditions, the net data throughput rate can reach up to 150 Mbps! The 802.11n uses signals which are bounced off walls, ceilings, windows, etc. to increase the data rate and improve transmission reliability. The different „wireless streams“ are received via multiple antennas and, thanks to complex chipsets, ensure the highest-performance connection possible. This technique is the secret behind the excellent results achieved inside buildings with many different obstacles.



Back of the ZyXEL NBG-460N

Hybrid Access Point in practice

ZyXEL's Hybrid AP concept makes it possible to combine up to eight access points into one group and configure these via one single online GUI. Networks with multiple access points will benefit from a configuration process which has been standardised, simplified and well structured.

Simple configuration and control

Configuration is child's play: Via the online GUI, at least one of the APs is assigned the role of controller. As soon as other APs within the same network are assigned the function of Managed AP, these restart, obtain an IP address via DHCP and report to the Controller. The Controller then lists all available access points in Managed AP mode.

Communication via exchange

Access to the Managed APs now takes place exclusively via the Controller. The network of individual components – hybrid APs – manifests itself to the administrator as a single, independent system. Communication is directed through encrypted tunnels based on a protocol specially created for this application – CAPWAP.

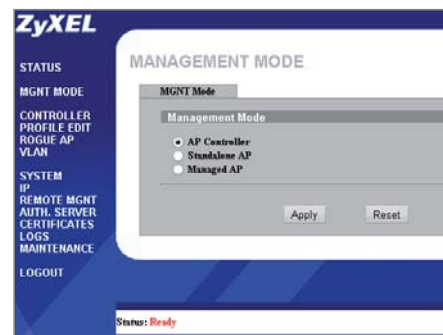
Cell and channel planning

Profiles are created for both band and channel division as well as for the ESSID and security

settings in line with cell planning. Multiple profile levels make it possible to organise wireless cells in a structured way. All profile configuration changes are automatically transferred to the assigned access points.

An automatic channel assignment function is available within the Hybrid AP which serves the purpose of isolating the cells with the least interference possible.

The NWA-3160 is the first device to support the Hybrid AP concept; other models, including an outdoor version, will follow in the months to come.

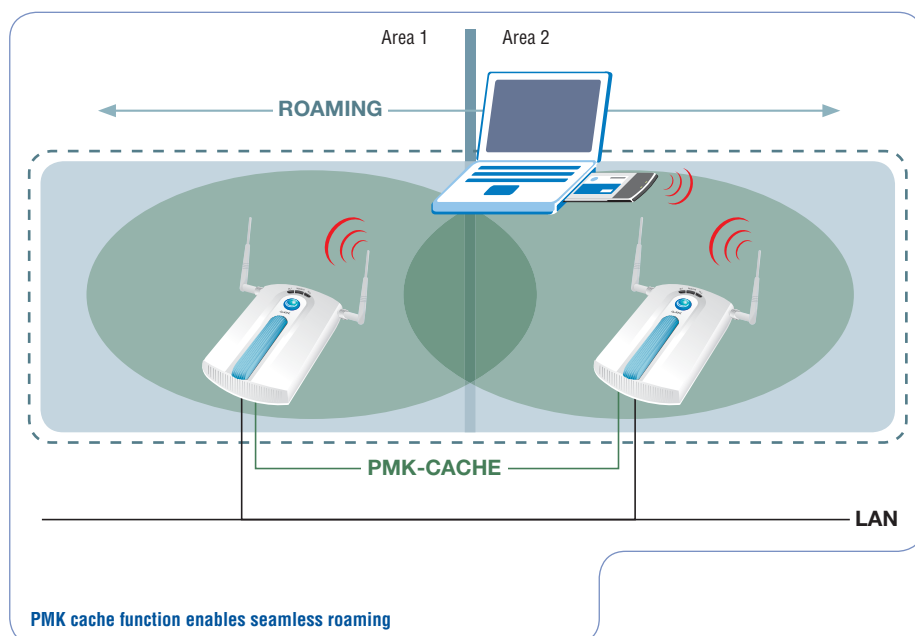


Every Hybrid AP-compatible access point can be used either as a normal access point, as an access point in a controller capacity or as a managed access point, as desired.

Tips for «seamless» roaming

The term roaming refers to the automatic handover of WLAN sessions between various access points. This function is a prerequisite, particularly for VoIP telephony via WLAN. If a VoIP call is being made, roaming sees to it that the call is not interrupted when moving from one cell to another.

ZyXEL NWA-3xxx access points are suitable for demanding WLAN networks for VoIP applications such as those used for business infrastructures, for example. Seamless handover of a session to a neighboring access point is the most challenging requirement. Extremely precise cell planning is essential and the wireless coverage of individual APs must overlap somewhat on the edges. The VoIP WLAN client then makes a decision during operation whether the strength of the approaching AP signal is strong enough to trigger roaming. Here it must be kept in mind that the client has a significant impact on roaming quality. Updating the client driver or, even better, adjusting the configuration might be sufficient in some cases. The latter option is generally only offered for high-quality products. NWA-3xxx APs from ZyXEL also offer a PMK cache function which speeds up authentication during a cell change and enables nearly seamless roaming.



ZyXEL business access point with 802.11n

ZyXEL is one of the first manufacturers to launch a business access point in accordance with 802.11n, the NWA-3165. It uses MIMO technology (multiple in, multiple out) which ensures high reliability and high performance when operating wireless LANs. The NWA-3165 is flexible and ideally suited to applications in the healthcare sector or for production and logistics services.

Net throughput of up to 100 Mbps!

Until now, rates this fast were only possible via Ethernet connections. MIMO technology uses multiple antennas for transmission and can even increase throughput rates by making use of otherwise undesired reflections. This improves WLAN coverage and eliminates so-called dead spots.

Wi-Fi n/b/g certified

The ZyXEL NWA-3165 is certified in accordance with the most recent draft of the standard, IEEE 802.11n Draft 2.0. This guarantees maximum compatibility for professional WLANs. Since 802.11n is backward compatible to 802.11b/g, NWA-3165 offers a high degree of investment protection.

802.11a, g or n?

Of course the question arises of which technology is best and when. In addition to 802.11n, ZyXEL also offers 11a and g products. Finding the right one depends on its intended use. If the installation of a dense network of access points makes cell planning more complex, 11a or g is recommended. 802.11n makes cell planning more difficult since two channels are bundled. 802.11n, on the other hand, is ideal for high transmission rates. While the NWA-3165 is equipped with built-in omnidirectional antennas, external antennas can be used for the NWA-3100, 3160 and 3500 models.



ZyXEL NWA-3165

Article: 91-005-214001B

Est. street price: € 212,00 excl. VAT.

Overview of ZyXEL Business Access Points

	 ZyXEL NWA-3100 WLAN-Access-Point	 ZyXEL NWA-3160 WLAN-Access-Point	 ZyXEL NWA-3500 WLAN-Access-Point	 ZyXEL NWA-3165 WLAN-Access-Point
Technology	802.11a/b/g	802.11a/b/g	802.11a/b/g	802.11n/b/g NEW
Radio module	single	single	dual	single
Max. throughput	54 Mbps	54 Mbps	54 Mbps	300 Mbps
MultiSSID	8	8	2 x 8	8
802.1Q VLAN tag	✓	✓	✓	✓
Ext. antenna connection	✓	✓	✓	-
QoS	✓	✓	✓	✓
Article	91-005-161001B	91-005-197001B	91-005-154001B	91-005-214001B
Est. street price	€ 147,00 excl. VAT	€ 164,00 excl. VAT	€ 240,00 excl. VAT	€ 212,00 excl. VAT